ELSEVIER

Synthetic Metals 66 (1994) 309

SYNTHETIC METALS

Author Index of Volume 66

Abel, M.-L., 85, 225
Acero, C., 299
Adam, M., 275
Aciyach, S., 217
Allbee, D.C., 301
Anand, J., 129
Arévalo, A.H., 25
Avlyanov, J.K., 169

Bartl, A., 135
Bazzaoui, E.A., 217
Beamson, G., 123
Berlin, A., 149
Billingham, N.C., 33
Bongaerts, P.F.G., 263
Bouman, M.M., 93
Braun, D., 75
Brown, A.M., 85
Brown, A.R., 257

Calvert, P.D., 33
Chaâbane, R.B., 49
Chan, H.S.O., 177
Chehimi, M.M., 85, 225
Clark, D.T., 123

de Leeuw, D.M., 257, 263
Demandt, R.C.J.E., 75
Dunsch, L., 135

Efimov, O.N., 89

Fahlman, M., 123
Fanghänel, E., 275
Fann, W.S., 143
François, B., 185
Fujimoto, H., 99
Fukuyama, M., 157

Gabelle, J.L., 243
Gaillard, F., 49
Gamoudi, M., 49
Gin, D.L., 169
Godon, C., 185
Godovski, D.Yu., 19
Göpel, W., 135
Grainger, A.M., 291
Graja, A., 43
Guillaud, G., 49

Hall, R.R., 301
Havinga, E.E., 93, 257
Hlavatý, J., 165
Hoffmann, S.K., 43
Hong, L., 249
Hotta, S., 117, 295

Ito, A., 81, 235
Iwasaki, K., 99

Jain, A.K., 203
Jouve, C., 49, 197
Jullien, D., 197

Kaeriyama, K., 123
Kankare, J., 61
Kao, F.J., 143
Kavan, L., 165
Kessener, Y.A.R.R., 75
Kim, W.H., 203
Klaassen, D.B.M., 263
Kobayashi, H., 117
Koller, J., 55
Kraakman, P.A., 263
Krtil, P., 165
Kudoh, Y., 157
Kumar, J., 203

Lacaze, P.C., 217
Lachkar, A., 209
Lamartine, R., 49
Leadley, S.R., 85
Leben, S., 55
Leclerc, M., 209
Lefrant, S., 185
Li, J., 67
Lin, S.H., 143
Loehle, W.D., 301
Lous, E.J., 257
Lukkari, J., 61
Lyubovskaya, R.N., 43

MacDiarmid, A.G., 169
Marsault, J.P., 217
Mathis, C., 185
Matsuura, Y., 193, 295
Matsuzaki, S., 99
McNeillis, P.M., 185
Meijer, E.W., 93
Meyer, S., 185
Mohammad, F., 33
Mokhliss, R., 209
Müllen, K., 275
Mutsaers, C.M.J., 263

Naarmann, H., 135
Ng, S.C., 177
Nyokong, T., 107

Okada, M., 235
Oshima, Y., 193, 295
Osredkar, U., 55
Otero, T.F., 25

Paasch, G., 135
Pagani, G., 149
Palaniappan, S., 129
Papež, V., 165
Petitjean, J., 85
Planche, M.F., 243
Pomp, A., 93
Ponomarenko, A.T., 19
Pud, A.A., 1

Rasmusson, J., 123
Ravindran, T., 203
Remaki, B., 197
Ribó, J.M., 299
Rikken, G.L.J., 75
Ruckenstein, E., 249

Sacher, E., 209
Salaneck, W.R., 123
Sathyanarayana, D.N., 129
Schiavon, G., 149
Schmeißer, D., 135
Šebenik, A., 55
Selmani, A., 209
Seow, S.H., 177
Shen, Y.-J., 275
Shevchenko, V.G., 19
Shioyama, H., 285
Shteinberg, V.G., 89
Shumm, B.A., 89
Simenon, M.M.J., 93
Skowroński, J.M., 285
Srinivasan, R., 301
Staring, E.G.J., 75

Tanaka, K., 81, 193, 235, 295
Tchmutin, I.A., 19
Thiéblemont, J.C., 243
Tripathy, S.K., 203

Venhuizen, A.H.J., 75
Visy, Cs., 61

Wang, E., 67
Watts, J.F., 85
Wegner, R., 275
Wilson, W.D., 301
Wittmann, J.C., 185

Yamabe, T., 81, 193, 235, 295
Yang, D.Y., 143
Yoshimura, S., 157
Yoshizawa, K., 81
Yu, J., 143
Yudanova, E.I., 43

Zakhidov, A.A., 235
Zecchin, S., 149
Zotti, G., 149
Zueva, A.F., 89

Elsevier Science S.A.

ELSEVIER

Synthetic Metals 66 (1994) 311–314

SYNTHETIC METALS

Subject Index of Volume 66

Acetylenes
copolymerization of 2-ethynylpyridine with phenyl- and halogen-substituted acetylenes, 55
Acid–base interactions
effect of acid–base interactions on the adsorption of PMMA on chloride-doped polypyrrole from neutral, acidic and basic solvents: an XPS study, 225
Adsorption
effect of acid–base interactions on the adsorption of PMMA on chloride-doped polypyrrole from neutral, acidic and basic solvents: an XPS study, 225
AFM
resonance Raman study of polythiophene films in the doped and undoped states. Relations between spectral data and physicochemical properties, 217
Alkenylpyrroles
electrochemical polymerization of *N*-alkenylpyrroles, 165
Ascorbic acid
polybithiophene-modified electrode: spectrophotometric detection of ascorbic acid, 177

Bis(ethylenedithio)tetrathiafulvalene
ESR study of deuterated organic conductor $(D_8\text{-ET})_2[Hg(SCN)_2Cl]$, 43

Calixarene
elaboration and characterization of thin calixarene films, 49
Camphorsulfonic acid
large induced optical activity in the conduction band of polyaniline doped with (1*S*)-(+)-10-camphorsulfonic acid, 93
Capacitor
stability study of polypyrrole and application to highly thermostable aluminum solid electrolytic capacitor, 157
Carbon network
ultraviolet laser irradiation of the polyimide, PMDA-ODA (Kapton™), to yield a patternable, porous, electrically conducting carbon network, 301
Chemical oxidation
on the dopant of polypyrrole obtained from chemical oxidation using tetrahalobenzoquinones, 299
Composites
analysis of peculiarities in percolation behavior of some conducting polymer composites, 19
a.c. and d.c. conductivities in a metal/polymer composite/metal sandwich. Case of charge-transfer 'doped' polyethylene complex, 197
inverted emulsion pathway to polypyrrole and polypyrrole elastomer composites, 249
Conductivities
electron paramagnetic resonance and conductivity studies on poly(*m*-toluidine) salts and their bases, 129
structure–conductivity relation for polypyrrole with a two-dimensional microscopic structure, 135
a.c. and d.c. conductivities in a metal/polymer composite/metal sandwich. Case of charge-transfer 'doped' polyethylene complex, 197
Copolymerization
copolymerization of 2-ethynylpyridine with phenyl- and halogen-substituted acetylenes, 55
CrO_3
the electrochemical synthesis and deintercalation effects of the ternary CrO_3–H_2SO_4–graphite intercalation compound, 285
Crystal
crystal and molecular structure of a charge-transfer complex between α,α'-dimethylquaterthiophene and 2,3,5,6-tetrafluoro-7,7,8,8-tetracyanoquinodimethane, 117
Cyclic voltammetry
cyclic voltammetric studies of hafnium and zirconium phthalocyanines, 107

Degradation
stability and degradation of conducting polymers in electrochemical systems, 1
FT-IR studies on thermal degradation of electrically conducting polymers, 33
Delocalization
the local-point interchain delocalization of the polaronic state of a one-dimensional polymer chain, 235
Deposition
metallization of polythiophenes I. Interaction of vapor-deposited Cu, Ag and Au with poly(3-hexylthiophene) (P3HT), 209
Deprotonation
study of the role of the deprotonation step in the electrochemical polymerization of thiophene-type monomers, 61
Dimethylformamide
polypyrrole electrogeneration from a nucleophilic solvent (DMF), 25
Dimethylquaterthiophene
crystal and molecular structure of a charge-transfer complex between α,α'-dimethylquaterthiophene and 2,3,5,6-tetrafluoro-7,7,8,8-tetracyanoquinodimethane, 117
Doping
doping effect of C_{60} on soluble polyaniline, 193
resonance Raman study of polythiophene films in the doped and undoped states. Relations between spectral data and physicochemical properties, 217
electronic properties of p-type doped oligothiophenes, 295
on the dopant of polypyrrole obtained from chemical oxidation using tetrahalobenzoquinones, 299

Elastomer
inverted emulsion pathway to polypyrrole and polypyrrole elastomer composites, 249
Electrochemical oxidation
electrochemical oxidation of 1,3,5-tris(diphenylamino)benzene (TDAB) for polyradical material, 81

Elsevier Science S.A.

Electrochemical synthesis
the electrochemical synthesis and deintercalation effects of the ternary CrO_3–H_2SO_4–graphite intercalation compound, 285
Electrochemical systems
stability and degradation of conducting polymers in electrochemical systems, 1
Electrode
polybithiophene-modified electrode: spectrophotometric detection of ascorbic acid, 177
Electrogeneration
polypyrrole electrogeneration from a nucleophilic solvent (DMF), 25
Electrohydrodimerization
electrochemical reduction of 4-ylidene-substituted polycyclopentadithiophenes. Polythiophene chain bridging by electrohydrodimerization, 149
Electronic properties
electronic properties of p-type doped oligothiophenes, 295
Electroplating
electroplating of conductive polymers for the metallization of insulators, 263
Emulsion
inverted emulsion pathway to polypyrrole and polypyrrole elastomer composites, 249
Epitaxy
epitaxy of poly(2,5-diheptyl-*p*-phenylene) on ordered polytetrafluoroethylene, 123
EPR
electron paramagnetic resonance and conductivity studies on poly(*m*-toluidine) salts and their bases, 129
Ethynylpyridine
copolymerization of 2-ethynylpyridine with phenyl- and halogen-substituted acetylenes, 55
Excited states
molecular orbital calculations of electronic excited states in poly(*p*-phenylene vinylene), 143

Field-effect transistor
organic n-type field-effect transistor, 257
Films
elaboration and characterization of thin calixarene films, 49
scanning tunneling microscopy (STM) and lateral force microscopy (LFM) investigation of the structure and character of conductive polypyrrole film, 67
ToF-SIMS characterization of electrochemically synthesized polypyrrole films, 85
steady-state photoconductivity in a novel solution-cast polydiacetylene film, 203
resonance Raman study of polythiophene films in the doped and undoped states. Relations between spectral data and physicochemical properties, 217
Fullerenes
doping effect of C_{60} on soluble polyaniline, 193

Graphite
the electrochemical synthesis and deintercalation effects of the ternary CrO_3–H_2SO_4–graphite intercalation compound, 285

H_2SO_4
the electrochemical synthesis and deintercalation effects of the ternary CrO_3–H_2SO_4–graphite intercalation compound, 285
Hafnium
cyclic voltammetric studies of hafnium and zirconium phthalocyanines, 107
Halogen
copolymerization of 2-ethynylpyridine with phenyl- and halogen-substituted acetylenes, 55

Insulators
electroplating of conductive polymers for the metallization of insulators, 263
Intercalation
intercalation of lithium ions in poly(*p*-phenylene): NMR studies, 89
the electrochemical synthesis and deintercalation effects of the ternary CrO_3–H_2SO_4–graphite intercalation compound, 285
Irradiation
ultraviolet laser irradiation of the polyimide, PMDA-ODA (Kapton™), to yield a patternable, porous, electrically conducting carbon network, 301

Kapton™
ultraviolet laser irradiation of the polyimide, PMDA-ODA (Kapton™), to yield a patternable, porous, electrically conducting carbon network, 301

Lithium
intercalation of lithium ions in poly(*p*-phenylene): NMR studies, 89
Luminescence
photo- and electroluminescence efficiency in poly(dialkoxy-*p*-phenylenevinylene), 75

Metallization
metallization of polythiophenes I. Interaction of vapor-deposited Cu, Ag and Au with poly(3-hexylthiophene) (P3HT), 209
electroplating of conductive polymers for the metallization of insulators, 263
Microscopy
scanning tunneling microscopy (STM) and lateral force microscopy (LFM) investigation of the structure and character of conductive polypyrrole film, 67
Molecular orbital
molecular orbital calculations of electronic excited states in poly(*p*-phenylene vinylene), 143
Monomers
study of the role of the deprotonation step in the electrochemical polymerization of thiophene-type monomers, 61

Nucleophilic solvent
polypyrrole electrogeneration from a nucleophilic solvent (DMF), 25

Oligothiophenes
electronic properties of p-type doped oligothiophenes, 295
Optical activity
large induced optical activity in the conduction band of polyaniline doped with (1*S*)-(+)-10-camphorsulfonic acid, 93
Overoxidation
polypyrrole overoxidation during its chemical synthesis, 243

Percolation
analysis of peculiarities in percolation behavior of some conducting polymer composites, 19
Phenyl
copolymerization of 2-ethynylpyridine with phenyl- and halogen-substituted acetylenes, 55
Phosphoric acid
synthesis and processing of poly(*p*-phenylene) via the phosphoric acid-catalyzed pyrolysis of a stereoregular precursor polymer: a characterization study, 169
Photoconductivity
steady-state photoconductivity in a novel solution-cast polydiacetylene film, 203

Photoemission
photoemission study of poly(3-alkylthiophene)s: the effects of air and temperature on the electronic structures, 99
Phthalocyanines
cyclic voltammetric studies of hafnium and zirconium phthalocyanines, 107
Physicochemical properties
resonance Raman study of polythiophene films in the doped and undoped states. Relations between spectral data and physicochemical properties, 217
PMMA
effect of acid–base interactions on the adsorption of PMMA on chloride-doped polypyrrole from neutral, acidic and basic solvents: an XPS study, 225
Polaronic state
the local-point interchain delocalization of the polaronic state of a one-dimensional polymer chain, 235
Poly(2,5-diheptyl-*p*-phenylene)
epitaxy of poly(2,5-diheptyl-*p*-phenylene) on ordered polytetrafluoroethylene, 123
Poly(3,4-ethylenedioxythiophene)
electroplating of conductive polymers for the metallization of insulators, 263
Poly(3-alkylthiophene)s
photoemission study of poly(3-alkylthiophene)s: the effects of air and temperature on the electronic structures, 99
Poly(3-hexylthiophene)
metallization of polythiophenes I. Interaction of vapor-deposited Cu, Ag and Au with poly(3-hexylthiophene) (P3HT), 209
Polyacetylene
synthesis of polyacetylene on an oriented poly(tetrafluoroethylene) support, 185
Polyaniline
large induced optical activity in the conduction band of polyaniline doped with (1*S*)-(+)-10-camphorsulfonic acid, 93
doping effect of C_{60} on soluble polyaniline, 193
Polybithiophene
polybithiophene-modified electrode: spectrophotometric detection of ascorbic acid, 177
Polycyclopentadithiophenes
electrochemical reduction of 4-ylidene-substituted polycyclopentadithiophenes. Polythiophene chain bridging by electrohydrodimerization, 149
Polydiacetylene
steady-state photoconductivity in a novel solution-cast polydiacetylene film, 203
Poly(dialkoxy-*p*-phenylenevinylene)
photo- and electroluminescence efficiency in poly(dialkoxy-*p*-phenylenevinylene), 75
Polyethylene
a.c. and d.c. conductivities in a metal/polymer composite/metal sandwich. Case of charge-transfer 'doped' polyethylene complex, 197
Polyimide
ultraviolet laser irradiation of the polyimide, PMDA-ODA (Kapton™), to yield a patternable, porous, electrically conducting carbon network, 301
Polymerization
study of the role of the deprotonation step in the electrochemical polymerization of thiophene-type monomers, 61
electrochemical polymerization of *N*-alkenylpyrroles, 165
Poly(*m*-toluidine)
electron paramagnetic resonance and conductivity studies on poly(*m*-toluidine) salts and their bases, 129
Poly(*p*-phenylene)
intercalation of lithium ions in poly(*p*-phenylene): NMR studies, 89
synthesis and processing of poly(*p*-phenylene) via the phosphoric acid-catalyzed pyrolysis of a stereoregular precursor polymer: a characterization study, 169
Poly(*p*-phenylene vinylene)
molecular orbital calculations of electronic excited states in poly(*p*-phenylene vinylene), 143
Polypyrrole
polypyrrole electrogeneration from a nucleophilic solvent (DMF), 25
scanning tunneling microscopy (STM) and lateral force microscopy (LFM) investigation of the structure and character of conductive polypyrrole film, 67
ToF-SIMS characterization of electrochemically synthesized polypyrrole films, 85
structure–conductivity relation for polypyrrole with a two-dimensional microscopic structure, 135
stability study of polypyrrole and application to highly thermostable aluminum solid electrolytic capacitor, 157
effect of acid–base interactions on the adsorption of PMMA on chloride-doped polypyrrole from neutral, acidic and basic solvents: an XPS study, 225
polypyrrole overoxidation during its chemical synthesis, 243
inverted emulsion pathway to polypyrrole and polypyrrole elastomer composites, 249
on the dopant of polypyrrole obtained from chemical oxidation using tetrahalobenzoquinones, 299
Polyradical material
electrochemical oxidation of 1,3,5-tris(diphenylamino)benzene (TDAB) for polyradical material, 81
Polytetrafluoroethylene
epitaxy of poly(2,5-diheptyl-*p*-phenylene) on ordered polytetrafluoroethylene, 123
synthesis of polyacetylene on an oriented poly(tetrafluoroethylene) support, 185
Polythiophenes
electrochemical reduction of 4-ylidene-substituted polycyclopentadithiophenes. Polythiophene chain bridging by electrohydrodimerization, 149
metallization of polythiophenes I. Interaction of vapor-deposited Cu, Ag and Au with poly(3-hexylthiophene) (P3HT), 209
resonance Raman study of polythiophene films in the doped and undoped states. Relations between spectral data and physicochemical properties, 217
Pyridinium
a conducting complex of a bis-pyridinium donor-σ-acceptor derivative with tetracyano-*p*-quinodimethane, 291
Pyrolysis
synthesis and processing of poly(*p*-phenylene) via the phosphoric acid-catalyzed pyrolysis of a stereoregular precursor polymer: a characterization study, 169

Raman spectroscopy
resonance Raman study of polythiophene films in the doped and undoped states. Relations between spectral data and physicochemical properties, 217
Reduction
electrochemical reduction of 4-ylidene-substituted polycyclopentadithiophenes. Polythiophene chain bridging by electrohydrodimerization, 149

Sheet resistance
electroplating of conductive polymers for the metallization of insulators, 263

Solubility parameters
effect of acid–base interactions on the adsorption of PMMA on chloride-doped polypyrrole from neutral, acidic and basic solvents: an XPS study, 225
Spectrometry
ToF-SIMS characterization of electrochemically synthesized polypyrrole films, 85
Spectroscopy
FT-IR studies on thermal degradation of electrically conducting polymers, 33
ESR study of deuterated organic conductor $(D_8\text{-}ET)_2[Hg(SCN)_2Cl]$, 43
intercalation of lithium ions in poly(*p*-phenylene): NMR studies, 89
electron paramagnetic resonance and conductivity studies on poly(*m*-toluidine) salts and their bases, 129
polybithiophene-modified electrode: spectrophotometric detection of ascorbic acid, 177
Stability
stability and degradation of conducting polymers in electrochemical systems, 1
stability study of polypyrrole and application to highly thermostable aluminum solid electrolytic capacitor, 157
Structures
scanning tunneling microscopy (STM) and lateral force microscopy (LFM) investigation of the structure and character of conductive polypyrrole film, 67
photoemission study of poly(3-alkylthiophene)s: the effects of air and temperature on the electronic structures, 99
crystal and molecular structure of a charge-transfer complex between α,α'-dimethylquaterthiophene and 2,3,5,6-tetrafluoro-7,7,8,8-tetracyanoquinodimethane, 117
structure–conductivity relation for polypyrrole with a two-dimensional microscopic structure, 135
Synthesis
synthesis and processing of poly(*p*-phenylene) via the phosphoric acid-catalyzed pyrolysis of a stereoregular precursor polymer: a characterization study, 169
synthesis of polyacetylene on an oriented poly(tetrafluoroethylene) support, 185
polypyrrole overoxidation during its chemical synthesis, 243
the electrochemical synthesis and deintercalation effects of the ternary CrO_3–H_2SO_4–graphite intercalation compound, 285
Ternary system
the electrochemical synthesis and deintercalation effects of the ternary CrO_3–H_2SO_4–graphite intercalation compound, 285
Tetracyano-*p*-quinomethane
a conducting complex of a bis-pyridinium donor-σ-acceptor derivative with tetracyano-*p*-quinodimethane, 291
2,3,5,6-Tetrafluoro-7,7,8,8-tetracyanoquinodimethane
crystal and molecular structure of a charge-transfer complex between α,α'-dimethylquaterthiophene and 2,3,5,6-tetrafluoro-7,7,8,8-tetracyanoquinodimethane, 117
Tetrahalobenzoquinones
on the dopant of polypyrrole obtained from chemical oxidation using tetrahalobenzoquinones, 299
Tetrathiafulvalenes
conjugated tris-tetrathiafulvalenes, 275
Thiophene
study of the role of the deprotonation step in the electrochemical polymerization of thiophene-type monomers, 61
ToF-SIMS
ToF-SIMS characterization of electrochemically synthesized polypyrrole films, 85
Transistor
organic n-type field-effect transistor, 257
1,3,5-Tris(diphenylamino)benzene
electrochemical oxidation of 1,3,5-tris(diphenylamino)benzene (TDAB) for polyradical material, 81

Uniformity adhesion
electroplating of conductive polymers for the metallization of insulators, 263

X-ray diffraction
the electrochemical synthesis and deintercalation effects of the ternary CrO_3–H_2SO_4–graphite intercalation compound, 285
X-ray photoelectron spectroscopy
effect of acid–base interactions on the adsorption of PMMA on chloride-doped polypyrrole from neutral, acidic and basic solvents: an XPS study, 225

Ylidene
electrochemical reduction of 4-ylidene-substituted polycyclopentadithiophenes. Polythiophene chain bridging by electrohydrodimerization, 149

Zirconium
cyclic voltammetric studies of hafnium and zirconium phthalocyanines, 107